

Flogen[®] Recombinant Murine Betacellulin (rMuBetacellulin)

Catalog Number:	PGR0127-012
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Recombinant human Betacellulin is a 9.0 kDa monomeric protein, containing 80 amino residues, which comprises the mature EGF homologous portion of the Betacellulin protein.
Quantity:	5µg/20µg/1000µg
AA Sequence:	DGNTTRTPET NGS LCGAPGE NCTGTTPRQK VKTHFSRCPK QYKHYCIHGR CRFVVDEQTP SCICEKGYFG ARCERVDLFY
Purity:	> 96 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 0.01 ng/ml, corresponding to a specific activity of > 1.0 × 10 ⁸ IU/mg.
Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4.
Endotoxin:	Less than 1 EU/µg of rMuBetacellulin as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Storage:	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.
Usage:	This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Murine Betacellulin

Betacellulin (BTC) encoded by the BTC gene located on the chromosome 4, is a member of the EGF family that also includes EGF, TGF- α , Amphiregulin, HB-EGF, Epiregulin, Tomoregulin and the Neuregulins. BTC is expressed in most tissues including kidney, uterus, liver and pancreas. It is also present in body fluids, including serum, milk, and colostrum. Mouse BTC is expressed as a 178-amino acid precursor and the amino acid sequence of the mature form is 80 % identical with human BTC. Both human and mouse BTC exhibit significant overall similarity with other members of the EGF family. Recombinant murine Betacellulin is a heparin binding protein containing 80 amino acids residues.